

## AQA - Analytical Quality Assurance

Addista (Addition & Standard Solution) (DataSheet DOC062.52.00269)



Watertight results due to quality assurance.

Measured values alone are not a sufficient basis for drawing reliable conclusions. They must be backed up by a quality control system for the method, materials and measurement results.

addista – the analytical quality assurance concept for all important parameters, complete with standard and spiking solutions as well as participation in round robins for self-monitoring and external corroboration.

Traceable test equipment monitoring in conformity with ISO 9000 ff, for measuring instruments and pipettes.

### WATER TREATMENT SINCE 1968

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Part No.	Designation	Number of tests
LCA700	* Addista LCA700, Mixed Standard/Spiking/Round Robin test Solution for use with	
	LCK304 Ammonium 0.015 ... 2.00 mg/l as NH4-N	17
	LCK311 Chloride 1 ... 70 mg/l	85
	LCK328 Potassium 8 ... 50 mg/l	85
	LCK348 Phosphate, ortho- 0.5 ... 5.0 mg/l as PO4-P	170
	LCK414 COD 5 ... 60 mg/l	42
	LCK328 LatoN 5 ... 40 mg/l	85
LCA701	* Addista LCA701, Mixed Standard/Spiking/Round Robin test Solution for use with	
	LCK306 Lead 0.1 ... 2.0 mg/l	8
	LCK321 Iron 0.2 ... 6.0 mg/l	42
	LCK329 Copper 0.1 ... 8.0 mg/l	42
	LCK337 Nickel 0.1 ... 6.0 mg/l	42
	LCK353 Sulphate 150 ... 900 mg/l	42
	LCK360 Zinc 0.2 ... 6.0 mg/l	425
LCA702	* Addista LCA702, Mixed Standard/Spiking/Round Robin test Solution for use with	
	LCK301 Aluminum 0.02 ... 0.5 mg/l	27
	LCK308 Cadmium 0.02 ... 0.3 mg/l	8
	LCK353 Sulphate 150 ... 900 mg/l	42
	LCK313 Chromium, VI 0.03 ... 1.0 mg/l	42
	LCK313 Chromium, total 0.03 ... 1.0 mg/l	42
LCA703	* Addista LCA703, Mixed Standard/Spiking/Round Robin test Solution for use with	
	LCK049 Phosphate, ortho- 1.6 ... 30 mg/l	17
	LCK114 COD 150 ... 1000 mg/l	42
	LCK303 Ammonium 2.0 ... 47 mg/l as NH4-N	425
	LCK311 Chloride 1 ... 70 mg/l	85
	LCK339 Nitrate 0.23 ... 13.5 mg/l	85
	LCK350 Phosphate, ortho- 2.0 ... 20 mg/l	212
	LCK353 Sulphate 150 ... 900 mg/l	42
	LCK386 TOC 30 ... 300 mg/l	85

**Note:** \* Storage in a refrigerator recommended to ensure stability and shelf-life

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Part No.	Designation	Number of tests
LCA704	* Addista LCA704, Mixed Standard/Spiking/Round Robin test Solution for use with	
	LCK153 Sulphate 1.6 ... 30 mg/l	17
	LCK305 Ammonium 1.0 ... 12 mg/l as NH4-N	170
	LCK311 Chloride 1 ... 70 mg/l	85
	LCK314 COD 15 ... 150 mg/l	42
	LCK340 Nitrate 5.0 ... 35 mg/l as NO3-N	425
	LCK349 Phosphate, ortho- 0.05 ... 1.5 mg/l as PO4-P	42
	LCK385 TOC 3 ... 30 mg/l	42

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LCA705	*	Addista LCA705, Mixed Standard/Spiking/Round Robin test Solution for use with		
		LCK014 COD	1,000 ... 10,000 mg/l	85
		LCK302 Ammonium	47 ... 130 mg/l as NH <sub>4</sub> -N	425
		LCK311 Chloride	1 ... 70 mg/l	85
		LCK387 TOC	300 ... 3000 mg/l	85
LCA706	*	Addista LCA706, Mixed Standard/Spiking/Round Robin test Solution for use with		
		LCK521 Iron	0.01 ... 1.0 mg/l	17
		LCK529 Copper	0.01 ... 1.0 mg/l	17
		LCK537 Nickel	0.05 ... 1.0 mg/l	17
		LCW032 Manganese	0.02 ... 5.0 mg/l	4
LCA707	*	Addista LCA707, Mixed Standard/Spiking/Round Robin test Solution for use with		
		LCK341 Nitrite	0.015 ... 0.6 mg/l NO <sub>2</sub> -N	42
		LCK614 COD	50 ... 300 mg/l	42
		LCK348 Phosphate, total	0.5 ... 5.0 mg/l	170
LCA708	*	Addista LCA708, Mixed Standard/Spiking/Round Robin test Solution for use with		
		LCK338 LatoN	20 ... 100 mg/l TNb	425
		LCK514 COD	100 ... 2000 mg/l	42
		LCK350 Phosphate, total	2 ... 20 mg/l PO <sub>4</sub> -P total	212
LCA709	*	Addista LCA709, Mixed Standard/Spiking/Round Robin test Solution for use with		
		LCK138 LatoN	1 ... 16 mg/l TNb	70
		LCK614 COD	50 ... 300 mg/l	42
		LCK349 Phosphate, total	0.05 ... 1.5 mg/l PO <sub>4</sub> -P total	42
		LCK342 Nitrite	0.6 ... 6.0 mg/l as NO <sub>2</sub> -N	425
LCA310	*	LCK310 Chlorine		≥ 20
LCA333		Triton X-100 based standard for LCK 333		
LCA390	*	LCK390 AOX		6
LCA555	*	LCK555 BOD		10
BDV012		Quality control cards for documentation, (12 cards - German language)		

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Monostandards

Part No.	Designation		Qty
2305842	Aluminum Standard Solution,	10 mg/l as Al <sub>3</sub> <sup>+</sup>	100 ml
1479210	Aluminum Standard Solution,	50 mg/l as Al <sub>3</sub> <sup>+</sup>	16/pkg 1
1417442	Aluminum Standard Solution,	100 mg/l as Al <sub>3</sub> <sup>+</sup>	100 ml
1298242	Aluminum Standard Solution,	1000 mg/l as Al <sub>3</sub> <sup>+</sup>	100 ml

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189149	Ammonia Nitrogen Standard Solution,	1 mg/l NH <sub>3</sub> -N	500 ml
15349	Ammonia Nitrogen Standard Solution,	10 mg/l NH <sub>3</sub> -N	500 ml
1479110	Ammonia Nitrogen Standard Solution,	50 mg/l NH <sub>3</sub> -N	16/pkg 1
2406549	Ammonia Nitrogen Standard Solution,	100 mg/l NH <sub>3</sub> -N	500 ml
2128410	Ammonia Nitrogen Standard Solution,	150 mg/l NH <sub>3</sub> -N	16/pkg 1
2354153	Ammonia Nitrogen Standard Solution,	1000 mg/l NH <sub>3</sub> -N	1 L
1457142	Arsenic Standard Solution,	1000 mg/l as As	100 ml
195149	Barium Standard Solution,	50 mg/l as Ba <sub>2+</sub>	500 ml
1461142	Barium Standard Solution,	1000 mg/l as Ba <sub>2+</sub>	100 ml
1425110	Barium Standard Solution,	5000 mg/l as Ba <sub>2+</sub>	16/pkg 1
2141342	Benzotriazole Standard Solution,	500 mg/l	100 ml
1486510	BOD Standard Solution,	300 mg/l Glucose plus Glutamic Acid	16/pkg 1
1486610	BOD Standard Solution,	3000 mg/l Glucose plus Glutamic Acid	16/pkg 1
1424910	Boron Standard Solution,	250 mg/l as B	16/pkg 1
191442	Boron Standard Solution,	1000 mg/l as B	100 ml
2630020	Chlorine Standard Solution,	25...30 mg/l as Cl <sub>2</sub>	20/pkg 2
1426820	Chlorine Standard Solution,	50...75 mg/l as Cl <sub>2</sub>	20/pkg 2
1426810	Chlorine Standard Solution,	50...75 mg/l as Cl <sub>2</sub>	16/pkg 1
1426110	Cadmium Standard Solution,	25 mg/l Cd <sub>2+</sub>	16/pkg 1
1402442	Cadmium Standard Solution,	100 mg/l Cd <sub>2+</sub>	100 ml
1402342	Chloride Standard Solution,	100 mg/l as Cl <sup>-</sup>	1000 ml
18349	Chloride Standard Solution,	1000 mg/l as Cl <sup>-</sup>	500 ml
1425020	Chloride Standard Solution,	12500 mg/l as Cl <sup>-</sup>	16/pkg 1
2605620	Chromium VI Standard Solution,	5 mg/l as Cr <sub>6+</sub>	20/pkg 2
2557220	Chromium VI Standard Solution,	10 mg/l as Cr <sub>6+</sub>	20/pkg 2
81042H	Chromium VI Standard Solution,	50 mg/l as Cr <sub>6+</sub>	100 ml
1415142	Chromium, Trivalent, Standard Solution,	50 mg/l Cr <sub>3+</sub>	100 ml
1425710	Chromium, Trivalent, Standard Solution,	12.5 mg/l Cr <sub>3+</sub>	16/pkg 1
2150342	Cobalt Standard Solution,	1000 mg/l Co <sub>2+</sub>	100 ml
2602853	Color Standard Solution,	15 platinum-cobalt units	1000 ml
141410	Color Standard Solution,	500 platinum-cobalt units	16/pkg 1
141453	Color Standard Solution,	500 platinum-cobalt units	1000 ml
12932	Copper Standard Solution,	10 mg/l Cu <sub>2+</sub>	100 ml
2112610	Copper Standard Solution,	12.5 mg/l as Cu <sub>2+</sub>	16/pkg 1
1424710	Copper Standard Solution,	75 mg/l as Cu <sub>2+</sub>	10/pkg 2
12842	Copper Standard Solution,	100 mg/l Cu <sub>2+</sub>	100 ml

**Note:** 1 10 mL Voluette® Ampules  
 2 2 mL PourRite® Ampules  
 For convenient opening of Ampules 2196800 Ampule Breaker Kit is recommended!

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### Monostandards

Part No.	Designation	Qty
76714	Cyanide: prepared by Potassium Cyanide, ACS requires export license!!	125 g
40502	Fluoride Standard Solution, 0.2 mg/l F-	500 mL
40505	Fluoride Standard Solution, 0.5 mg/l F-	500 mL
40508	Fluoride Standard Solution, 0.8 mg/l F-	500 mL
29149	Fluoride Standard Solution, 1.0 mg/l F-	500 mL
29153	Fluoride Standard Solution, 1.0 mg/l F-	1000 mL
40512	Fluoride Standard Solution, 1.2 mg/l F-	500 mL
40515	Fluoride Standard Solution, 1.5 mg/l F-	500 mL
40520	Fluoride Standard Solution, 2.0 mg/l F-	500 mL
23249	Fluoride Standard Solution, 100 mg/l F-	500 mL
2257310	Formaldehyde Standard Solution, 4000 mg/l as HCOH	16/pkg 1
2058016	Hardness: Calcium Chloride Standard Solution, 500-µg/l as CaCO <sub>3</sub>	946 ml
2124616	Hardness: Calcium Chloride Standard Solution, 20.000-µg/l as CaCO <sub>3</sub>	946 ml
74226	Hydrazine Sulfate, ACS	100 g
1425310	Iron Standard Solution, 10 mg/l Fe	16/pkg 1
1425410	Iron Standard Solution, 50 mg/l Fe	16/pkg 1
1417542	Iron Standard Solution, 100 mg/l Fe	100 ml
1426210	Lead Standard Solution, 50 mg/l Pb	16/pkg 1
1261742	Lead Standard Solution, 100 mg/l Pb	100 ml
2605820	Manganese Standard Solution, 10 mg/l Mn	20/pkg 2
1425810	Manganese Standard Solution, 250 mg/l Mn	16/pkg 1
1279142	Manganese Standard Solution, 1000 mg/l Mn	100 ml
1419542	Mercury Standard Solution, 1000 mg/l Hg	100 ml
1418742	Molybdenum Standard Solution, 10 mg-L as Mo <sub>6+</sub>	100 ml
1426510	Molybdenum Standard Solution, 500 mg/l as Mo <sub>6+</sub>	16/pkg 1
1418642	Molybdenum Standard Solution, 1000 mg/l as Mo <sub>6+</sub>	100 ml
2557610	Nickel Standard Solution, 50 mg/l Ni	16/pkg 1
1426610	Nickel Standard Solution, 300 mg/l Ni	16/pkg 1
1417642	Nickel Standard Solution, 1000 mg/l Ni	100 ml
30749	Nitrate Nitrogen Standard Solution, 10 mg/l NO <sub>3</sub> -N	500 ml
1433310	Nitrate Nitrogen Standard Solution, 12 mg/l NO <sub>3</sub> -N	16/pkg 1
194749	Nitrate Nitrogen Standard Solution, 100 mg/l NO <sub>3</sub> -N	500 ml
2557710	Nitrate Nitrogen Standard Solution, 250 mg/l NO <sub>3</sub> -N	16/pkg 1
1426010	Nitrate Nitrogen Standard Solution, 500 mg/l NO <sub>3</sub> -N	16/pkg 1
2277800	Nitrogen, Primary Standard Set for TKN (solid substances)	set of 3
2791505	TOC Standard Solution (KHP Standard, 1000 mg/l C)	5/pkg
31534	Potassium Acid Phthalate	500 g

Oxygen, Dissolved (Zero water)

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29434 Sodium Hydrosulfite, technical grade 500 g

□ **Note:** 1 10 mL Voluette® Ampules  
 2 2 mL PourRite® Ampules  
 For convenient opening of Ampules 2196800 Ampule Breaker Kit is recommended!

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### Monostandards

Part No.	Designation		Qty
256949	Phosphate Standard Solution,	1 mg/l as PO <sub>43-</sub>	500 ml
2059716	Phosphate Standard Solution,	3 mg/l as PO <sub>4-</sub>	946 ml
1420416	Phosphate Standard Solution,	10 mg/l as PO <sub>43-</sub>	946 ml
1424342	Phosphate Standard Solution,	15 mg/l as PO <sub>43-</sub>	100 ml
17110	Phosphate Standard Solution,	50 mg/l as PO <sub>43-</sub>	16/pkg 1
17149	Phosphate Standard Solution,	50 mg/l as PO <sub>43-</sub>	500 ml
1424210	Phosphate Standard Solution,	500 mg/l as PO <sub>43-</sub>	16/pkg 1
2351749	Potassium Standard Solution,	100 mg/l	500 ml
1479010	Potassium Standard Solution,	250 mg/l	16/pkg 2
2415342	Quarternary Ammonium Compound Standard Solution, 100 mg/l as CTAB		100 ml
2240742	Selenium Standard Solution,	1000 mg/l	100 ml
2100817	Silica Standard Solution,	500-µg/L as SiO <sub>2</sub>	3.78 L
110649	Silica Standard Solution,	1 mg/l as SiO <sub>2</sub>	500 ml
140349	Silica Standard Solution,	10 mg/l as SiO <sub>2</sub>	500 ml
111729	Silica Standard Solution,	50 mg/l as SiO <sub>2</sub>	200 ml
19449	Silica Standard Solution,	1000 mg/l as SiO <sub>2</sub>	500 ml
1461342	Silver Standard Solution,	1000 mg/L as Ag <sup>+</sup>	100 mL
2175749	Sulfate Standard Solution,	1000 mg/l	500 ml
1425210	Sulfate Standard Solution,	2500 mg/l	16/pkg 1
2408449	Sulfite Standard Solution,	15 mg/l as SO <sub>32-</sub>	500 ml
2267410	Sulfite Standard Solution,	5000 mg/l as SO <sub>32-</sub>	16/pkg 1
1427110	Surfactants Standard Solution,	60 mg/l LAS	16/pkg 1
2756707	THM Standard, 10-ppm as Chloroform, ampule		each
246142	Turbidity Formazine Primary Standard Solution, 4000 FNU/NTU		100 ml
246149	Turbidity Formazine Primary Standard Solution, 4000 FNU/NTU		500 ml
1427010	Volatile Acids Standard Solution,	62,500 mg/l as HOAc	16/pkg 1
1424620	Zinc Standard Solution,	25-mg/l as Zn <sub>2+</sub>	20/pkg 2
1424610	Zinc Standard Solution,	25-mg/l as Zn <sub>2+</sub>	16/pkg 1
237842	Zinc Standard Solution,	100-mg/l as Zn <sub>2+</sub>	100 mL
1417742	Zinc Standard Solution,	1000 mg/l as Zn <sub>2+</sub>	100 mL

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## AQA - Analytical Quality Assurance

Multi- Standards for HACH Methods

Part No.	Designation		Qty
	MIXED PARAMETER QUALITY CONTROL STANDARDS	COMPOSITION	
2833749	Metals Drinking Water/ LR	1.0 mg/L Cu, 0.3 mg/L Fe, 0.1 mg/L Mn	500 mL
2833649	Metals Drinking Water/HR	2.5 mg/L Cu, 1.5 mg/L Fe, 5.0 mg/L Mn	500 mL
2833049	Drinking Water Inorganics	2.0 mg/L NO <sub>3</sub> -N, 50 mg/L SO <sub>4</sub> <sup>2-</sup> , 1.0 mg/L F <sup>-</sup> , 2.0 mg/L PO <sub>4</sub> <sup>3-</sup>	500 mL
2833449	LR Hardness	100 mg/L as CaCO <sub>3</sub> Total Hardness, 50 mg/L as CaCO <sub>3</sub> Ca Hardness	500 mL
2833349	HR Hardness	1000 mg/L CaCO <sub>3</sub> Total Hardness, 500 mg/L CaCO <sub>3</sub> Ca Hardness	500 mL
2833510	Oxygen Demand	396 mg/L BOD, 617 mg/L COD, 242 mg/L TOC	16 x 10 mL ampoules
2833149	Wastewater Influent Inorganics**	15 mg/L NH <sub>3</sub> -N, 10 mg/L NO <sub>3</sub> -N, 10 mg/L PO <sub>4</sub> <sup>3-</sup> , 500 mg/L COD, 400 mg/L SO <sub>4</sub> <sup>2-</sup> , 161 mg/L TOC	500 mL
2833249	Wastewater Effluent Inorganics**	2 mg/L NH <sub>3</sub> -N, 4 mg/L NO <sub>3</sub> -N, 2 mg/L PO <sub>4</sub> <sup>3-</sup> , 25 mg/L COD, 50 mg/L SO <sub>4</sub> <sup>2-</sup> , 8 mg/L TOC	500 mL

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